



Accreditations:



APEC TEL CA0001



1309



AT-1945



SL2-IN-E-1119R



Korea KCC-RRA  
CA0001

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April 28, 2026

**Ultratech Engineering Labs, Inc.**

3000 Bristol Circle  
Oakville, Ontario  
L6H 6G4

**Subject:** Application for Equipment Certification for 125 kHz and 2450 MHz Transmitters under FCC Part 15, Subpart C, Sections 15.209 and 15.249

**Applicant:** Control Technology China Co., LTD  
**Product:** ATEQ VT18 TPMS Tool  
**Model:** VT18  
**FCC ID:** 2AK5Y-VT18

Dear Sir/Madam:

As appointed agent for **Control Technology China Co., LTD**, we submit this application for equipment certification of the above product. Kindly review all required documents uploaded to your E-Filing Site.

If you have any queries, please do not hesitate to contact us.

Yours truly,

Tri Luu  
Authorized Agent



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April 23, 2026

**Control Technology China Co., LTD**

No. 98, Jianpeng Road  
Jiuting Town, Songjiang District  
Shanghai 201615  
China

**Attn.: Mr. Branko Avramovic**

**Subject: Application for Equipment Certification under FCC Part 15,  
Subpart C, Section 15.209**

**Product: ATEQ VT18 TPMS Tool**  
**Model No.: VT18**  
**FCC ID: 2AK5Y-VT18**

Dear Mr. Avramovic:

The product sample, as provided by you, has been tested and found to comply with FCC Part 15, Subpart C, Section 15.209.

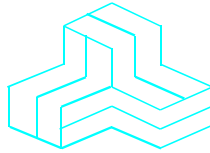
Enclosed you will find copy of the engineering report. If you have any queries, please do not hesitate to contact us.

Yours truly,

Tri Minh Luu  
V.P., Engineering

Encl

# ENGINEERING TEST REPORT



**ATEQ VT18 TPMS Tool**  
**Model: VT18**  
**FCC ID: 2AK5Y-VT18**

Applicant:

**Control Technology China Co., LTD**  
No. 98, Jianpeng Road  
Jiuting Town, Songjiang District  
Shanghai 201615  
China

**In Accordance With**  
**Federal Communications Commission (FCC)**  
**Part 15, Subpart C, Section 15.209**

**UltraTech's File No.: 26ATEQ019\_FCC15C209**

This Test report is Issued under the Authority of  
Tri M. Luu  
Vice President of Engineering  
UltraTech Group of Labs

Date: April 23, 2026

Report Prepared by: Dan Huynh

Tested by: Angus Au

Issued Date: April 23, 2026

Test Date(s):  
March 2 - 30, 2026

- *The results in this Test Report apply only to the sample(s) tested, and the sample tested is randomly selected.*
- *This report must not be used by the client to claim product endorsement by any agency of the US Government.*
- *This test report shall not be reproduced, except in full, without a written approval from UltraTech*

## UltraTech

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Lab Code: 0685



APEC TEL CA0001



1309



CA 0001/2049



AT-1945



SL2-IN-E-1119R



Korea KCC-RRR  
CA0001

## TABLE OF CONTENTS

|                                                                                  |           |
|----------------------------------------------------------------------------------|-----------|
| <b>EXHIBIT 1. INTRODUCTION.....</b>                                              | <b>1</b>  |
| 1.1. SCOPE .....                                                                 | 1         |
| 1.2. RELATED SUBMITTAL(S)/GRANT(S) .....                                         | 1         |
| 1.3. NORMATIVE REFERENCES .....                                                  | 1         |
| <b>EXHIBIT 2. PERFORMANCE ASSESSMENT .....</b>                                   | <b>2</b>  |
| 2.1. CLIENT INFORMATION .....                                                    | 2         |
| 2.2. EQUIPMENT UNDER TEST (EUT) INFORMATION .....                                | 2         |
| 2.3. EUT'S TECHNICAL SPECIFICATIONS.....                                         | 3         |
| 2.4. LIST OF EUT'S PORTS.....                                                    | 3         |
| 2.5. ANCILLARY EQUIPMENT .....                                                   | 3         |
| 2.6. TEST SETUP BLOCK DIAGRAM .....                                              | 4         |
| <b>EXHIBIT 3. EUT OPERATING CONDITIONS AND CONFIGURATIONS DURING TESTS .....</b> | <b>5</b>  |
| 3.1. CLIMATE TEST CONDITIONS.....                                                | 5         |
| 3.2. OPERATIONAL TEST CONDITIONS & ARRANGEMENT FOR TESTS.....                    | 5         |
| <b>EXHIBIT 4. SUMMARY OF TEST RESULTS.....</b>                                   | <b>6</b>  |
| 4.1. LOCATION OF TESTS .....                                                     | 6         |
| 4.2. APPLICABILITY & SUMMARY OF EMC EMISSION TEST RESULTS .....                  | 6         |
| 4.3. MODIFICATIONS INCORPORATED IN THE EUT FOR COMPLIANCE PURPOSES.....          | 6         |
| <b>EXHIBIT 5. TEST DATA .....</b>                                                | <b>7</b>  |
| 5.1. POWER LINE CONDUCTED EMISSIONS [§15.207(a)].....                            | 7         |
| 5.2. TRANSMITTER RADIATED EMISSIONS [47 CFR §§ 15.209 & 15.205] .....            | 10        |
| 5.3. 20 dB BANDWIDTH [47 CFR 15.209 (a)] .....                                   | 12        |
| <b>EXHIBIT 6. TEST EQUIPMENT LIST .....</b>                                      | <b>14</b> |
| <b>EXHIBIT 7. MEASUREMENT UNCERTAINTY .....</b>                                  | <b>15</b> |

## EXHIBIT 1. INTRODUCTION

### 1.1. SCOPE

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Reference:</b>                    | FCC Part 15, Subpart C                                                                                  |
| <b>Title:</b>                        | Code of Federal Regulations (CFR), Title 47 Telecommunication, Part 15, Subpart C Intentional Radiators |
| <b>Purpose of Test:</b>              | Equipment Certification for FCC Part 15C.                                                               |
| <b>Test Procedures:</b>              | ANSI C63.4 and ANSI C63.10                                                                              |
| <b>Environmental Classification:</b> | Commercial, industrial or business environment                                                          |

### 1.2. RELATED SUBMITTAL(S)/GRANT(S)

None.

### 1.3. NORMATIVE REFERENCES

| Publication   | Year | Title                                                                                                                                                               |
|---------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC 47 CFR 15 | 2025 | Code of Federal Regulations (CFR), Title 47 – Telecommunication, Part 15 – Radio Frequency Devices                                                                  |
| ANSI C63.4    | 2014 | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 KHz to 40 GHz |
| ANSI C63.10   | 2020 | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices                                                                      |

## EXHIBIT 2. PERFORMANCE ASSESSMENT

### 2.1. CLIENT INFORMATION

| Applicant       |                                                                                       |
|-----------------|---------------------------------------------------------------------------------------|
| <b>Name:</b>    | Control Technology China Co., LTD                                                     |
| <b>Address:</b> | No. 98, Jianpeng Road<br>Jiuting Town, Songjiang District<br>Shanghai 201615<br>China |

| Manufacturer    |                                                                                       |
|-----------------|---------------------------------------------------------------------------------------|
| <b>Name:</b>    | Control Technology China Co., LTD                                                     |
| <b>Address:</b> | No. 98, Jianpeng Road<br>Jiuting Town, Songjiang District<br>Shanghai 201615<br>China |

### 2.2. EQUIPMENT UNDER TEST (EUT) INFORMATION

The following information (with the exception of the Date of Receipt) has been supplied by the applicant.

|                                       |                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Brand Name:</b>                    | Control Technology China Co., LTD                                                       |
| <b>Product Name:</b>                  | ATEQ VT18 TPMS Tool                                                                     |
| <b>Model Name or Number:</b>          | VT18                                                                                    |
| <b>Serial Number:</b>                 | Test sample                                                                             |
| <b>Type of Equipment:</b>             | Part 15 Low Power Transmitter Below 1705 kHz                                            |
| <b>Input Power Supply Type:</b>       | Li-ion battery / External USB AC Adapter or PC USB Port                                 |
| <b>Primary User Functions of EUT:</b> | Handheld TPMS (Tire Pressure Monitoring System) diagnostic tool for passenger vehicles. |

## 2.3. EUT'S TECHNICAL SPECIFICATIONS

| Transmitter                     |                                             |
|---------------------------------|---------------------------------------------|
| Intended Operating Environment: | Commercial, light industry & heavy industry |
| Power Supply Requirement:       | 5V DC                                       |
| Operating Frequency Range:      | 125 kHz                                     |
| Field Strength:                 | 68.74 dB $\mu$ V/m peak at 3m distance      |
| 20 dB Bandwidth:                | 4.407 kHz                                   |
| Modulation Type:                | ASK                                         |
| Antenna Connector Type:         | Integral coil antenna                       |

The EUT contained an integrated certified ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD Wi-Fi & Bluetooth Internet of Things Module (FCC ID: 2AC7Z-ESPC3WROOM). The module test data were leveraged in this filing.

## 2.4. LIST OF EUT'S PORTS

| Port Number | EUT's Port Description                  | Number of Identical Ports | Connector Type | Cable Type (Shielded/Non-shielded)                |
|-------------|-----------------------------------------|---------------------------|----------------|---------------------------------------------------|
| 1           | USB-C — Charging and data communication | 1                         | USB Type-C     | Min. 2 m; shielded (data) / non-shielded (charge) |

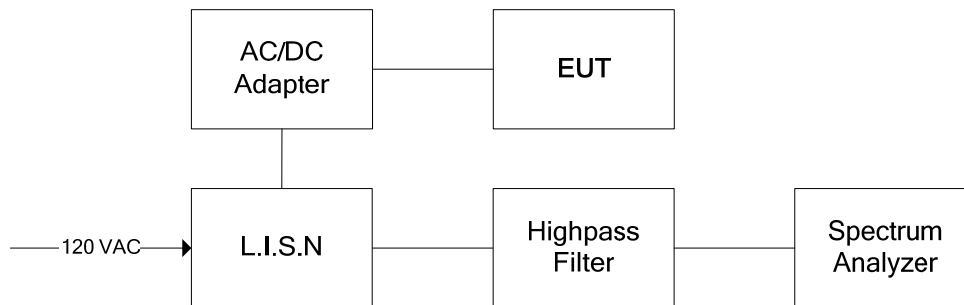
## 2.5. ANCILLARY EQUIPMENT

The EUT was tested while connected to the following representative configuration of ancillary equipment necessary to exercise the ports during tests:

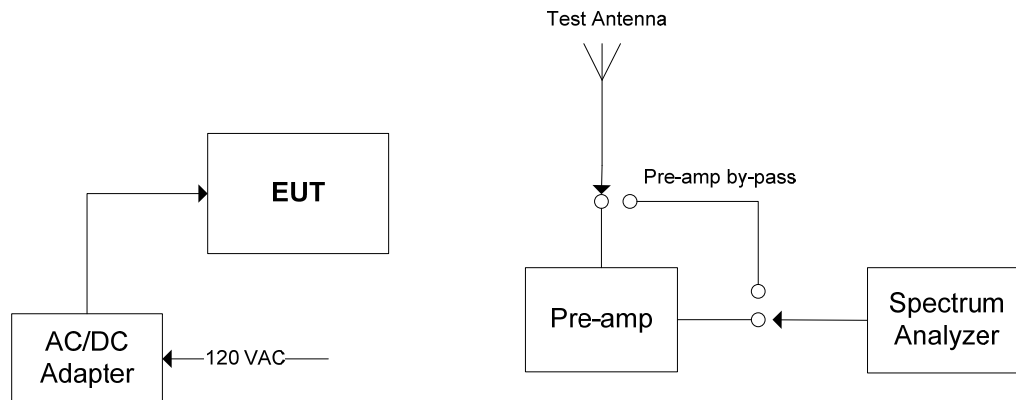
- 1) J&S AC Adapter, M/N: JS-SW1260502000UN

## 2.6. TEST SETUP BLOCK DIAGRAM

### 2.6.1. Conducted Emissions



### 2.6.2. Radiated Emissions



### EXHIBIT 3. EUT OPERATING CONDITIONS AND CONFIGURATIONS DURING TESTS

#### 3.1. CLIMATE TEST CONDITIONS

The climate conditions of the test environment are as follows:

|                     |                           |
|---------------------|---------------------------|
| Temperature:        | 21 to 23 °C               |
| Humidity:           | 45 to 58%                 |
| Pressure:           | 102 kPa                   |
| Power input source: | 120 VAC via AC/DC Adapter |

#### 3.2. OPERATIONAL TEST CONDITIONS & ARRANGEMENT FOR TESTS

|                           |                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|
| Operating Modes:          | The EUT was configured for continuous transmission for the duration of testing.                                      |
| Special Test Software:    | N/A                                                                                                                  |
| Special Hardware Used:    | N/A                                                                                                                  |
| Transmitter Test Antenna: | The EUT was tested with the antenna fitted in a manner typical of normal intended use as integral antenna equipment. |

| Transmitter Test Signals  |                                  |
|---------------------------|----------------------------------|
| Frequency Band(s):        | 125 kHz                          |
| Test Frequency(ies):      | 125 kHz                          |
| RF Power Output:          | 68.74 dBμV/m Peak at 3m distance |
| Normal Test Modulation:   | ASK                              |
| Modulating Signal Source: | Internal                         |

## EXHIBIT 4. SUMMARY OF TEST RESULTS

### 4.1. TEST LAB AND LOCATION

|                           |                                                                                                                                                                                       |                                              |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Company Name:             | Ultratech Engineering labs Inc.                                                                                                                                                       |                                              |
| Address:                  | 3000 Bristol Circle, Oakville, Ontario, Canada, L6H 6G4<br>Tel.: (905) 829-1570 Fax.: (905) 829-8050<br>Website: <a href="http://www.ultratech-labs.com">www.ultratech-labs.com</a> , |                                              |
| Test Site/Company Number: | FCC                                                                                                                                                                                   | ISED                                         |
|                           | MRA: APEC TEL<br>Designation no. CA0001<br>FRN: 0003781366                                                                                                                            | Company No.: 2049A<br>CAB Identifier: CA0001 |

### 4.2. APPLICABILITY & SUMMARY OF EMC EMISSION TEST RESULTS

| FCC Section(s) | Test Requirements                                                             | Compliance (Yes/No) |
|----------------|-------------------------------------------------------------------------------|---------------------|
| 15.203         | Antenna Requirement                                                           | Yes*                |
| 15.207(a)      | Power Line Conducted Emissions                                                | Yes                 |
| 15.209(a)      | 20 dB Bandwidth                                                               | Yes                 |
| 15.209         | Transmitter Radiated Emissions - Fundamental, Harmonic and Spurious Emissions | Yes                 |

\* The EUT complies with the requirement; it employs integral antenna.

### 4.3. MODIFICATIONS INCORPORATED IN THE EUT FOR COMPLIANCE PURPOSES

None.

## EXHIBIT 5. TEST DATA

### 5.1. POWER LINE CONDUCTED EMISSIONS [§15.207(a)]

#### 5.1.1. Limit(s)

The equipment shall meet the limits of the following table:

| Frequency of emission<br>(MHz) | Conducted Limits (dB $\mu$ V) |           |
|--------------------------------|-------------------------------|-----------|
|                                | Quasi-peak                    | Average   |
| 0.15–0.5 .....                 | 66 to 56* .....               | 56 to 46* |
| 0.5–5 .....                    | 56 .....                      | 46        |
| 5–30 .....                     | 60 .....                      | 50        |

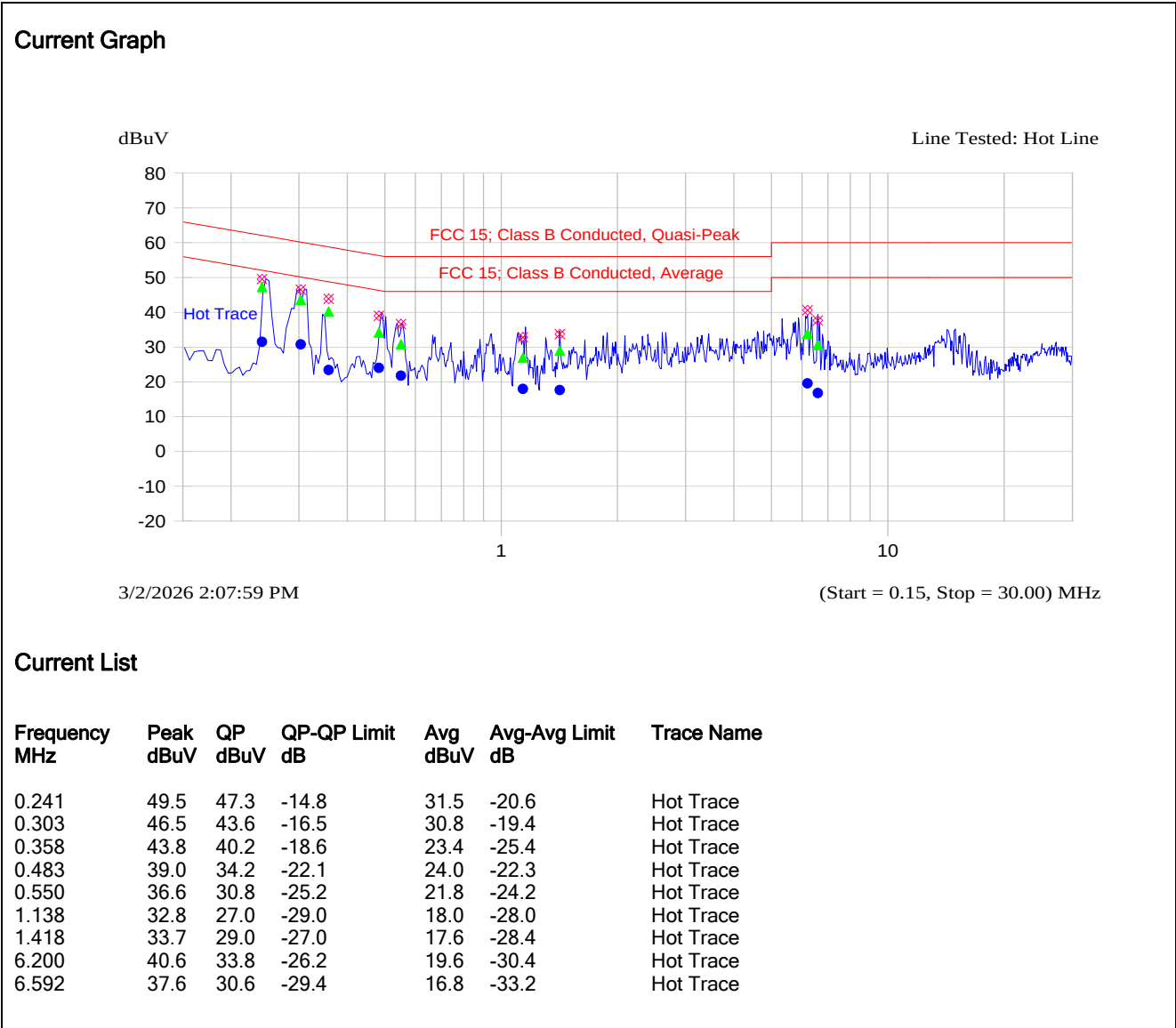
\*Decreases linearly with the logarithm of the frequency

#### 5.1.2. Method of Measurements

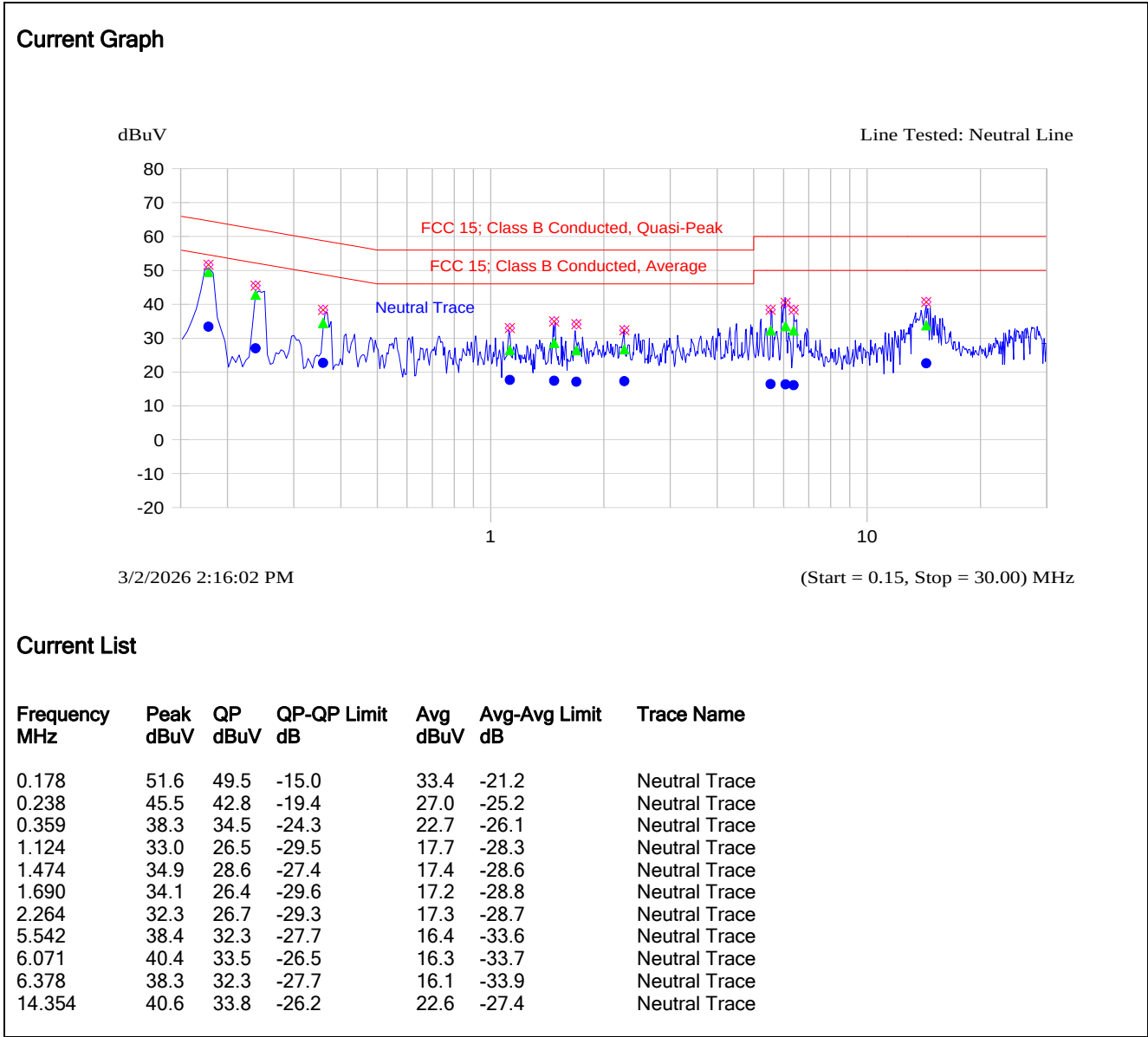
ANSI C63.4

5.1.3. Test Data

Plot 5.1.3.1. Power Line Conducted Emissions  
Line Voltage 120 VAC, Line Tested: Hot



Plot 5.1.3.2. Power Line Conducted Emissions  
Line Voltage120 VAC, Line Tested: Neutral



## 5.2. TRANSMITTER RADIATED EMISSIONS [47 CFR §§ 15.209 & 15.205]

### 5.2.1. Limit(s)

§ 15.209 Radiated emission limits; general requirements.

(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300                           |
| 0.490-1.705     | 24000/F(kHz)                      | 30                            |
| 1.705-30.0      | 30                                | 30                            |
| 30-88           | 100 **                            | 3                             |
| 88-216          | 150 **                            | 3                             |
| 216-960         | 200 **                            | 3                             |
| Above 960       | 500                               | 3                             |

\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

(b) In the emission table above, the tighter limit applies at the band edges.

(c) The level of any unwanted emissions from an intentional radiator operating under these general provisions shall not exceed the level of the fundamental emission. For intentional radiators which operate under the provisions of other sections within this part and which are required to reduce their unwanted emissions to the limits specified in this table, the limits in this table are based on the frequency of the unwanted emission and not the fundamental frequency. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.

(d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

(e) The provisions in §§15.31, 15.33, and 15.35 for measuring emissions at distances other than the distances specified in the above table, determining the frequency range over which radiated emissions are to be measured, and limiting peak emissions apply to all devices operated under this part.

(f) In accordance with §15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation of a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in §15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in §15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit. Emissions which must be measured above the tenth harmonic of the highest fundamental frequency designed to be emitted by the

intentional radiator and which fall within the restricted bands shall comply with the general radiated emission limits in §15.109 that are applicable to the incorporated digital device.

(g) Perimeter protection systems may operate in the 54-72 MHz and 76-88 MHz bands under the provisions of this section. The use of such perimeter protection systems is limited to industrial, business and commercial applications.

### 5.2.2. Method of Measurements

ANSI C63.10 for measurement methods.

### 5.2.3. Test Data

#### Remarks:

- The measuring receiver shall be tuned over the frequency range 10 kHz to 1 GHz.
- All spurious emissions that are in excess of 20 dB below the specified limit shall be recorded.
- EUT was initially tested at 3m and the value measured at 3m shall be extrapolated as applicable to compare with limit and measurement distance specified in section 15.209(a).
- Extrapolation factor of 40dB/decade shall be used for frequencies below 30 MHz.

#### 5.2.3.1. Fundamental Emissions

|                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| <b>Remarks:</b> <ul style="list-style-type: none"> <li>Field strength limit of the fundamental 125 kHz at 300m distance is <math>20\log(2400/125) = 25.7</math> dBμV/m</li> <li>For frequency band 0.009- 0.490 MHz, the measured E-Field at 3m (column 2) will be extrapolated to 300m E-Field Level (column 3) using the extrapolation factor of <math>40\log(3/300) = -80</math> dB</li> </ul> |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|

| Frequency (kHz) | Peak E-Field at 3m (dBμV/m) | Extrapolated E-Field Level at 300m (dBμV/m) | Antenna Plane (H/V) | § 15.209 (a) Limits at 300m (dBμV/m) | Margin (dB) |
|-----------------|-----------------------------|---------------------------------------------|---------------------|--------------------------------------|-------------|
| 125             | 68.74                       | -11.26                                      | V                   | 25.7                                 | -37.0       |
| 125             | 68.22                       | -11.78                                      | H                   | 25.7                                 | -37.5       |

#### 5.2.3.2. Harmonic/Spurious Emissions

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| <b>Remarks:</b> <ul style="list-style-type: none"> <li>For frequency band 0.009- 0.490 MHz, the measured E-Field at 3m (column 2) will be extrapolated to 300m E-Field Level (column 3) using the extrapolation factor of <math>40\log(3/300) = -80</math> dB</li> <li>For frequency bands 0.490-1.705 MHz and 1.705-30.0 MHz, the measured E-Field at 3m (column 2) will be extrapolated to 30m E-Field Level (column 3) using the extrapolation factor of <math>40\log(3/30) = -40</math> dB</li> </ul> |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|

| Frequency (MHz) | Peak E-Field @ 3m (dBμV/m) | Extrapolated E-Field Level (dBμV/m) | Antenna Plane (H/V) | § 15.209 (a) Limits (dBμV/m) | Margin (dB) |
|-----------------|----------------------------|-------------------------------------|---------------------|------------------------------|-------------|
| 0.010 - 0.490   | *                          | *                                   | H / V               | *                            | *           |
| 0.490 - 1.705   | *                          | *                                   | H / V               | *                            | *           |
| 1.705 - 30.0    | *                          | *                                   | H / V               | *                            | *           |

\* No emissions or harmonics were detected within 20 dB of the limit.

### ULTRATECH GROUP OF LABS

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File #: 26ATEQ019\_FCC15C209  
April 23, 2026

All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)

### 5.3. 20 dB BANDWIDTH [47 CFR 15.209 (a)]

#### 5.3.1. Limit(s)

Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., [§§ 15.231](#) and [15.241](#).

#### 5.3.2. Method of Measurements

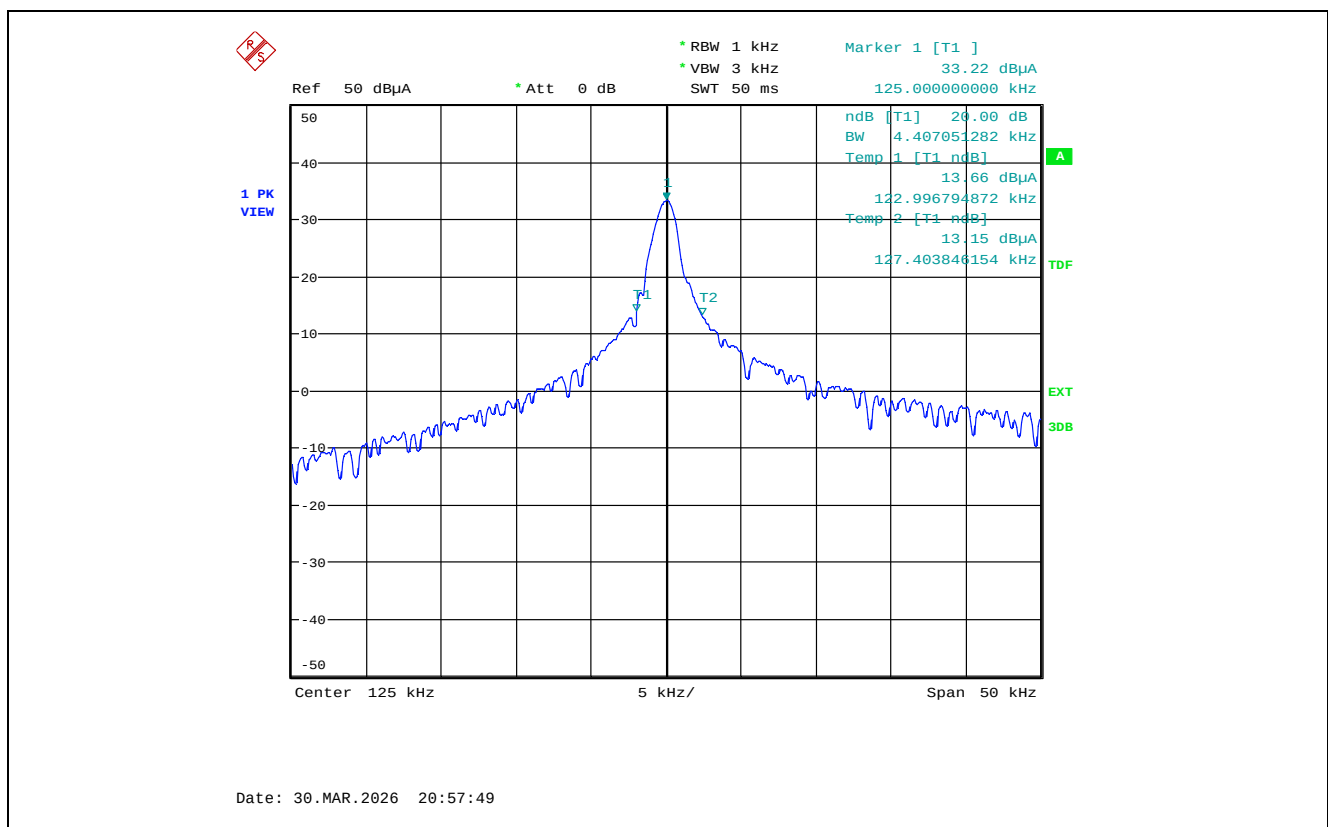
ANSI C63.10

#### 5.3.3. Test Data

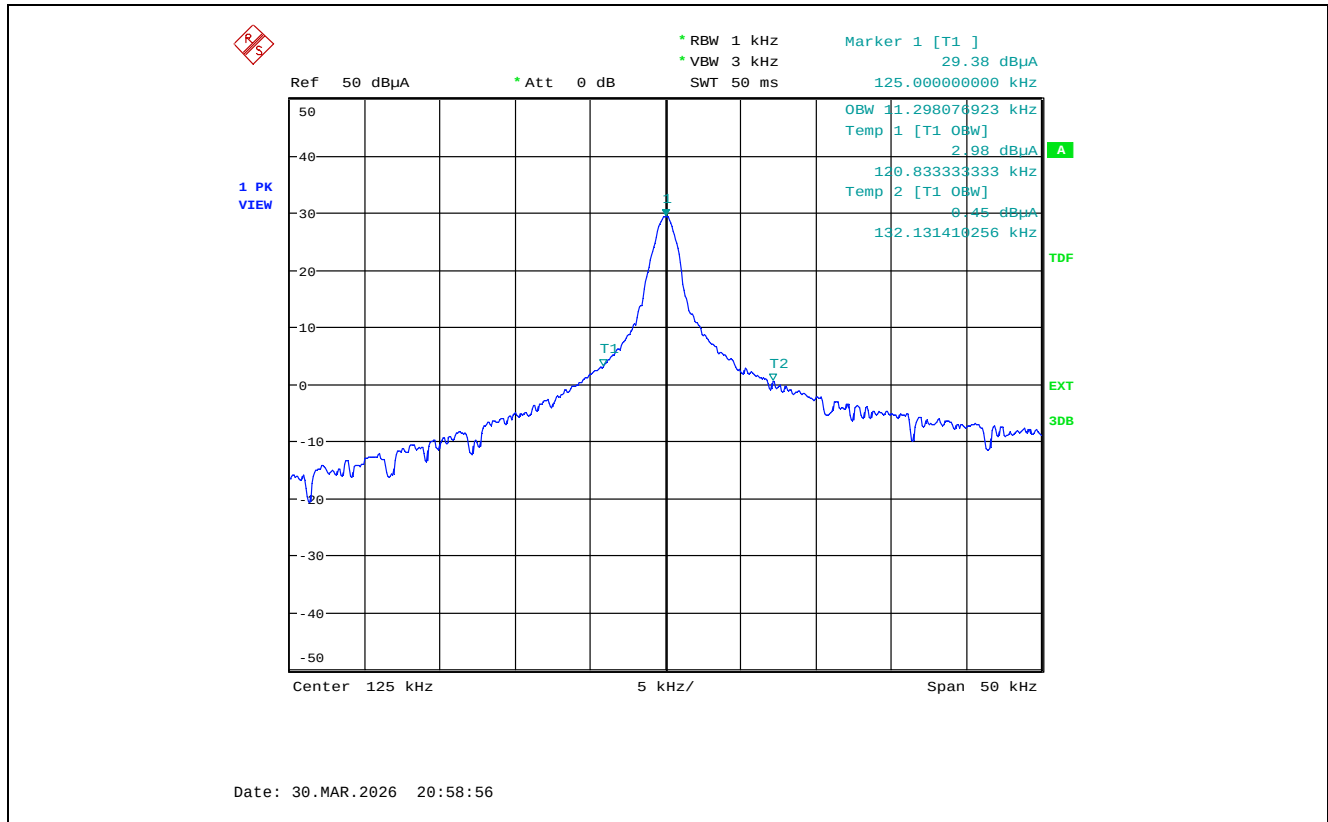
| Channel Frequency | 20 dB Bandwidth | 99 %Occupied Bandwidth |
|-------------------|-----------------|------------------------|
| 125 kHz           | 4.407 kHz       | 11.298 kHz             |

See the following plot for details.

Plot 5.3.3.1. 20 dB Bandwidth, Fc: 125 kHz



Plot 5.3.3.2. 99% Occupied Bandwidth, Fc: 125 kHz



## EXHIBIT 6. TEST EQUIPMENT LIST

| Test Instruments  | Manufacturer    | Model No. | Serial No. | Frequency Range              | Cal. Due Date |
|-------------------|-----------------|-----------|------------|------------------------------|---------------|
| Spectrum Analyzer | Hewlett Packard | 8593EM    | 3710A00223 | 9 kHz–26.5 GHz               | 02 Sep 2026   |
| Highpass Filter   | Rohde & Schwarz | EZ-25     | 100064     | Passband<br>150kHz to 30 MHz | 29 Oct 2026   |
| LISN              | EMCO            | 3825/2    | 8907-1531  | 9 kHz–30 MHz                 | 07 Apr 2027   |
| Spectrum Analyzer | Rohde & Schwarz | ESU40     | 100037     | 20Hz-40GHz                   | 15 Sep 2026   |
| Loop Antenna      | EMCO            | 6502      | 9104-2611  | 10kHz-30MHz                  | 13 Jun 2026   |
| Biconilog Antenna | EMCO            | 3142B     | 1575       | 26MHz-3000MHz                | 12 Nov 2026   |

### ULTRATECH GROUP OF LABS

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File #: 26ATEQ019\_FCC15C209

April 23, 2026

*All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)*

## EXHIBIT 7. MEASUREMENT UNCERTAINTY

The measurement uncertainties stated were calculated in accordance with the requirements of CISPR 16-4-2 @ IEC:2003 and JCGM 100:2008 (GUM 1995) – Guide to the Expression of Uncertainty in Measurement.

| Test Description               | Expanded Uncertainty, K=2 for 95% Confidence Level |
|--------------------------------|----------------------------------------------------|
| Power Line Conducted Emissions | $\pm 2.62$ dB                                      |
| Radiated Emissions             | $\pm 2.68$ dB (10 kHz - 30 MHz)                    |
|                                | $\pm 4.30$ dB (30 MHz – 1 GHz)                     |
| Frequency Stability/Bandwidth  | $\pm 2$ Hz                                         |

---

### ULTRATECH GROUP OF LABS

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